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**AMENDMENTS TO THE CLAIMS:** 

This listing of claims will replace all prior versions, and listings, of claims in the

application:

<u>Listing Of Claims:</u>

1. (Currently Amended) A rotor for a vertical shaft impact crusher, said rotor

comprising a horizontal upper disc and a horizontal lower disc, said discs being separated by at

least two vertical wall segments defining between them an outflow opening for material leaving

the rotor, said wall segments each having a first wall portion being substantially tangential in

relation to the rotor and being located adjacent to the periphery of the rotor and a second wall

portion being angled in relation to said first wall portion and extending from the first wall portion

into the rotor, wherein said second wall portion comprises a straight first section extending from

the interior of the rotor towards the periphery of the rotor, said first section forming an obtuse

first interior angle with said first wall portion, and a second section connecting the first section

and the first wall portion, said second section and said first wall portion forming a second

interior angle being smaller than said first interior angle, said second section and said first wall

portion forming at least one pocket for retaining material, wherein an end of the second section

contacts an end of the first wall portion and the second section is oriented in a radial direction

relative to an axis of rotation of the rotor.

2. (Previously Presented) A rotor according to claim 1, wherein said first angle is

approximately 110-155°.

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3. (Previously Presented) A rotor according to claim 2, wherein said first angle is

approximately 120-150°.

4. (Currently Amended) A rotor according to claim [[1]] 2, wherein said second

angle is approximately 75-100°.

5. (Previously Presented) A rotor according to claim 4, wherein said second angle is

approximately 86-94°.

6. (Previously Presented) A rotor for a vertical shaft impact crusher, said rotor

comprising a horizontal upper disc and a horizontal lower disc, said discs being separated by at

least two vertical wall segments defining between them an outflow opening for material leaving

the rotor, said wall segments each having a first wall portion being substantially tangential in

relation to the rotor and being located adjacent to the periphery of the rotor and a second wall

portion being angled in relation to said first wall portion and extending from the first wall portion

into the rotor, wherein said second wall portion comprises a straight first section extending from

the interior of the rotor towards the periphery of the rotor, said first section forming an obtuse

first angle with said first wall portion, and a second section connecting the first section and the

first wall portion, said second section and said first wall portion forming a second angle being

smaller than said first angle, said second section and said first wall portion forming at least one

pocket for retaining material, wherein a horizontal length of the second section is less than a tip

distance, wherein the tip distance is defined as the shortest distance between the second section

and a trailing edge of a wear tip located adjacent to a free vertical edge of the first wall portion.

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7. (Previously Presented) A rotor according to claim 6, wherein said horizontal

length is 20-70% of the tip distance.

8. (Previously Presented) A rotor according to claim 7, wherein said horizontal

length is 35-60% of the tip distance.

9. (Previously Presented) A rotor according to claim 1, wherein a second pocket for

retaining material is formed between said first section and said second section.

10. (Previously Presented) A rotor for a vertical shaft impact crusher, said rotor

comprising a horizontal upper disc and a horizontal lower disc, said discs being separated by at

least two vertical wall segments defining between them an outflow opening for material leaving

the rotor, said wall segments each having a first wall portion being substantially tangential in

relation to the rotor and being located adjacent to the periphery of the rotor and a second wall

portion being angled in relation to said first wall portion and extending from the first wall portion

into the rotor, wherein said second wall portion comprises a straight first section extending from

the interior of the rotor towards the periphery of the rotor, said first section forming an obtuse

first angle with said first wall portion, and a second section connecting the first section and the

first wall portion, said second section and said first wall portion forming a second angle being

smaller than said first angle, said second section and said first wall portion forming at least one

pocket for retaining material, wherein the wall segment is adapted for building a bed of material

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extending continuously from the first wall portion to a rear support plate mounted at the first section of the second wall portion.

11. (Previously Presented) A rotor according to claim 1, wherein the first section is in spaced relation from the first wall portion with the second section therebetween.

12. (Previously Presented) A rotor according to claim 1, wherein two pockets for retaining material are formed between said first section and said first wall portion.